Docket No.: NANO 107 US2 (NU 22092)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Samuel I. STUPP et al.

Serial No. 10/534,266 : Group Art Unit: 1654

Filed: October 13, 2005 : Examiner: David Lukton

For: SYNTHESIS AND SELF-ASSEMBLY OF ABC TRIBLOCK BOLA PEPTIDE

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT AND CERTIFICATION STATEMENT

Honorable Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In accordance with the provisions of 37 C.F.R. 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the documents listed on the attached form PTO/SB/08a. It is respectfully requested that the documents be expressly considered during the prosecution of this application, and that the documents be made of record therein and appear among the "References Cited" on any patent to issue therefrom. Copies of any cited U.S. Patents, U.S. Patent Publications, and PCT Publications are not being submitted in accordance with 37 CFR 1.98(a)(2)(i).

The undersigned certifies that Item No. 17 of the Non-Patent Literature Documents section contained in the Information Disclosure Statement was first cited in a communication from the European Patent Office in a foreign application counterpart to a related application not more than three months prior to the filing of the Information Disclosure Statement. Sec 37 CFR 1.97(e)(1).

The undersigned further certifies that no additional items of information, aside from Item No. 17, contained in the Information Disclosure Statement were cited in a communication from a

foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the Information Disclosure Statement. See 37 CFR 1.97(e)(2). The items were, however, cited by Examiners in Notices of References Cited with Office Actions issued in related applications.

In accordance with 37 C.F.R. § 1.97(g) and (h), the filing of this IDS should not be construed as a representation that a search had been made or that information cited is, or is considered to be, material to patentability as defined in 37 C.F.R.§ 1.56 (b), or that any cited document listed or attached is (or constitutes) prior art. Unless otherwise indicated, the date of publication indicated for an item is taken from the face of the item, and Applicant reserves the right to prove that the date of publication is in fact different.

This Information Disclosure Statement is being filed with the appropriate certification, and therefore, no fee is believed to be required.

Respectfully submitted,

BENET GROUP LLC

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Date: 12 APKIL 2007

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)

Application Number		10534266
Filing Date		2005-10-13
First Named Inventor	Samo	uel I. STUPP et al.
Art Unit		1654
Examiner Name	David	Lukton
Attorney Docket Number		NANO 107 US2 (NU 22092)

1		CERTIFICATION	NSIAIEMENI				
Ple	ase see 37 CFR 1	.97 and 1.98 to make the appropriate selec	ction(s):				
	That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).						
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	foreign patent or after making rea any individual d	information contained in the information ffice in a counterpart foreign application, soenable inquiry, no item of information co esignated in 37 CFR 1.56(c) more than 137 CFR 1.97(e)(2).	and, to the knowledge of the ntained in the information di	e person signing the certification sclosure statement was known to			
×	See attached ce	rtification statement.					
	Fee set forth in 3	37 CFR 1.17 (p) has been submitted herew	ith.				
	None						
	signature of the ap m of the signature.	plicant or representative is required in acc	ATURE ordance with CFR 1.33, 10.1	8. Please see CFR 1.4(d) for the			
Sig	nature	Mully Madelles	Date (YYYY-MM-DD)	2007-04-12			
Na	me/Print	Maria L. Maebius	Registration Number	42,967			
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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submittine completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 23313-1450.

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				U.S.	PATENTS	
Examiner Initial*	Cite No	Patent Number	Kind Code1	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	5871767		1999-02-16	Dionne et al.	
	2	6156321		2000-12-05	Thorpe et al.	
	3	6270765	B1	2001-08-07	Dec et al.	
	4	6548048	B1	2003-04-15	Cuthbertson et al.	
	5	6855329	B1	2005-02-15	Shakesheff et al.	
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	1	20050214257	A1	2005-09-29	Zhao et al.	
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Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ² į	Kind Code4	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T5
	1	99/36107	wo		1999-07-22	Shakesheff et al.		
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Examiner Initials*	Cite No		rnal, serial, sym	posium,	catalog, etc),	the article (when approp date, pages(s), volume-i		T5
	1	15, 1992. "The All-D-C	onfiguration Segn	nent Con	taining the IKVA	pey, Yoshihiko Yamada, and NY Sequence of Laminin A f Biological Chemistry. Vol.	Chain Has Similar	
	2	Margomenou-Leonidor Aqueous Media." Jour				ses of lonic Amphiphiles. II -1061.	. Ionic Amphiphiles In	
	3	Rappolt, Michael and C Dipalmitoylphosphatidy				and Metastable Ripple Pha 11-386.	se of	
	4	Goveas, J. L. and S. T. Diblock Copolymer Me				Cylindrical Transition in V 2605-2612.	Veakly Segregated	
	5	Munson, John B. and S Adult Rats." European				EDNF on Axotomized Senso 6-1129.	ory and Motor Neurons in	
	6					998. "Synthesis and Physic Vol. 14, No. 13, pp. 3625-		
	7		"A Surface-Modifi			ada, Takenori Tomohiro, Ta Capable of Binding to Cell		

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8	Lub, 11 and Glenn D. Prestwich. 2001. "Novel Biomatenais for Drug Delivery." Expert Opin. Ther. Patents. Vol. 11, No. 9, pp. 1395-1410.	
9	Marchi-Artzner, Valorie, Barbara Lorz, Ulrike Hellerer, Martin Kantlehner, Horst Kessler, and Erich Sackmann. 2001. "Selective Adhesion of Endothelial Cells to Artificial Membranes with a Synthetic RGD-Lipopeptide." Chem. Eur. J. Vol. 7, No. 5, pp. 1095-1101.	
10	Blight, Andrew R. November 2002. "Miracles and Molecules—Progress In Spinal Cord Repair." Nature Neuroscience Supplement. Vol. 5, pp. 1051-1054.	
11	Rodger, Alison, Jascindra Rajendra, Rachel Marrington, Malin Ardhammar, Bengt Norden, Jonathan D. Hirst, Andrew T. B. Gilbert, Timothy R. Defforn, David J. Halsall, Cheryl A. Woolhead, Colin Robinson, Teresa J. T. Pinheiro, Jurate Kazlauskaile, Mark Seymour, Niuvis Perez, and Michael J. Hannon. 2002. "Flow Oriented Linear Dictroism to Probe Protein Orientation in Membrane Environments." Phys. Chem. Chem. Phys. Vol. 4, pp. 4051-4057.	
12	Silva, G. A., K. L. Kehl, K. L. Niece, and S. I. Stupp. May 4, 2003. "Nanoengineered Peptide Amphiphile Network for Photoreceptor Replacement in Degenerative Retinal Disorders." Investigative Ophthalmology & Visual Science. Abstract No. 492 from Annual Meeting of the Association for Research in Vision and Opthalmology.	
13	Brandenburg, Klaus, Frauke Wagner, Mareike Muller, Holger Heine, Jorg Andra, Michel H. J. Koch, Ulrich Zahringer, and Ulrich Seydel. 2003. "Physicochemical Characterization and Biological Activity of a Glycoglycerolipid from Mycoplasma fermentans." Eur. J. Biochem. Vol. 270, pp. 3271-3279.	
14	Czeisler, C., V. M. Tysseling-Mattiace, G. A. Silva, S. I. Stupp, and J. A. Kessler. 2003, "Behavoral Improvement and Increased Survival Rate after Treatment with a Self Assembling Gel in a Rat Model of Spinal Cord Injury." 2003 Abstract Viewer/linerary Planner. Program No. 245.22. Washington, DC: Society for Neuroscience. Printed February S, 2007. Page 1. http://sin.scholarone.com/lin/2003/main.html?new_page_id=1268.abstract_id=1554	
15	Schmidt, Christine E. and Jennie Baier Leach. 2003. "Neural Tissue Engineering: Strategies for Repair and Regeneration." Annu. Rev. Blomed. Eng. Vol. 5, pp. 293-347.	
16	t' Hart, Bert A. and Sandra Amor. 2003. "The Use of Animal Models to Investigate the Pathogenesis of NeuroInflammatory Disorders of the Central Nervous System." Current Opinion in Neurology. Vol. 16, pp. 375-383.	
17	Beniash, Elia, Jeffery D. Hartgerink, Hannah Storrie, John C. Stendahl, and Samuel I. Stupp. 2005. "Self-Assembling Peptide Amphiphile Nanofiber Matrices for Cell Entrapment." Acta Biomaterialia. Vol. 1, pp. 387-397.	
18	Hoke, Ahmet. August 2006. "Mechanisms of Discase: What Factors Limit the Success of Peripheral Nerve Regeneration in Humans?" Nature Clinical Practice Neurology. Vol. 2, No. 8, pp. 448-454.	0

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	19		frosini, Anastasia Mardilovich, Alison Wede elf-Assembly and Applications of Biomimetic 4.			
	20		at.com. 2007, updated. Hank's Buffered Sav.thelabrat.com/protocolsHanks.shtml. Prin			
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